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FIG. 1

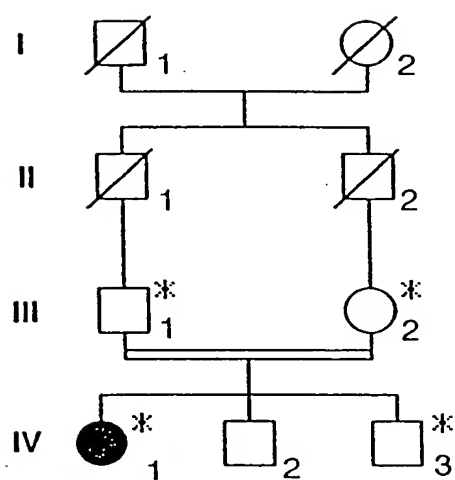


FIG. 2

D6S305

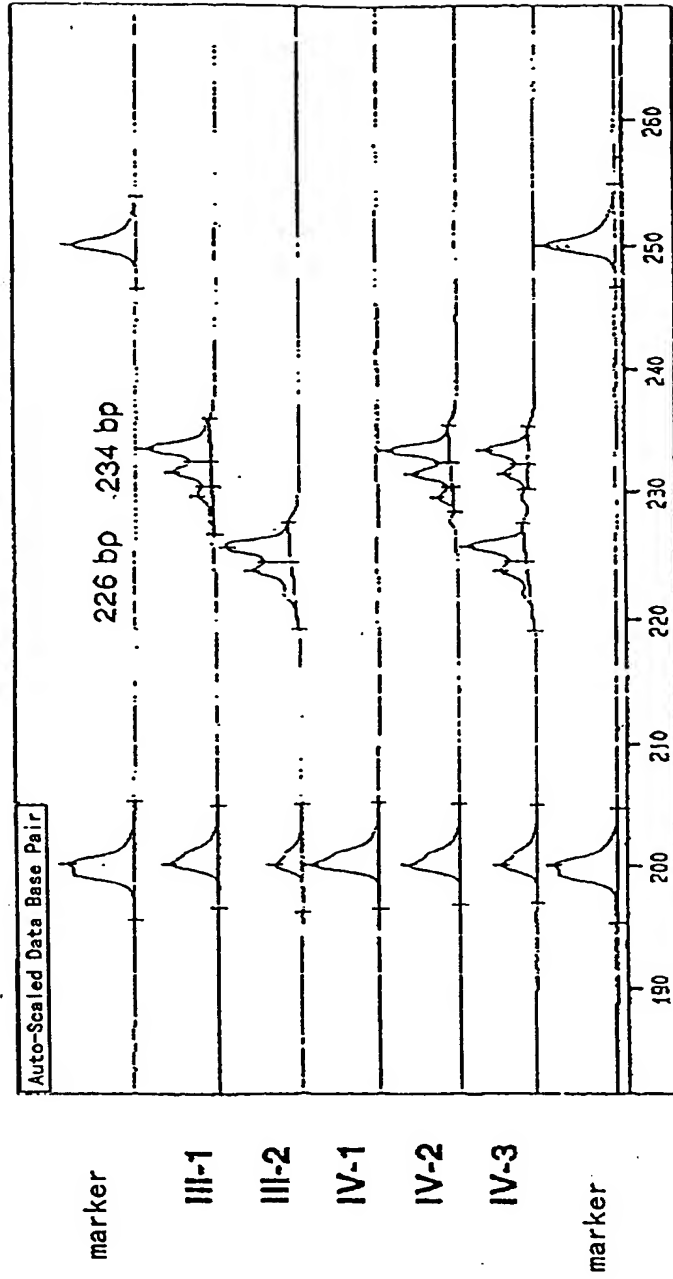
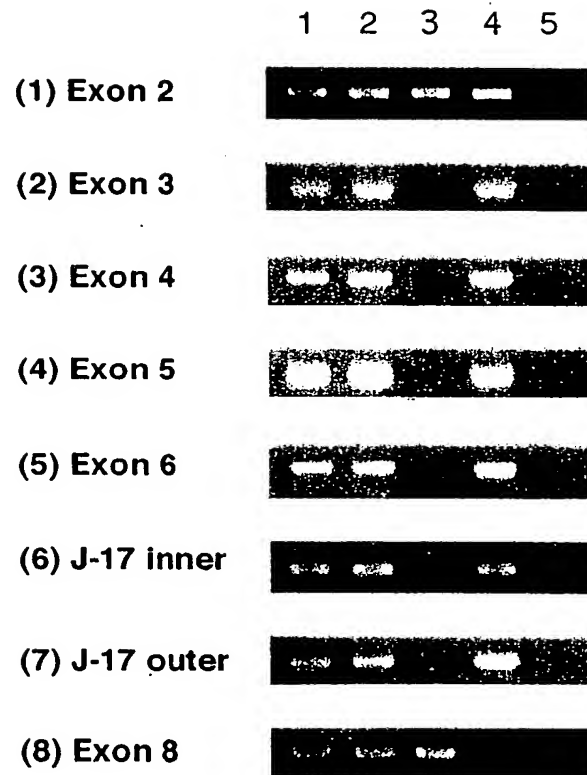


FIG. 3



SKM8

HFB 1

HFB 5

102

635:720

1496

2960

SKM1

SKM3

HFB 3

HFB 4

1 kb

FIG. 5

Parkin	Met	Ile	Val	Phe	Val	Arg	Phe	Asn	Ser	Ser	His	Gly	Phe	Pro	Val	Glu	Val	Asp	Ser	Asp
UBIQUITIN HUMAN	Met	Gln	Ile	Phe	Val	Lys	Thr	Leu	Thr	Gyl	Lys	Thr	Ile	Thr	Leu	Glu	Val	Glu	Pro	Ser
UBIQUITIN YEAST	Met	Gln	Ile	Phe	Val	Lys	Thr	Leu	Thr	Gyl	Lys	Thr	Ile	Thr	Leu	Glu	Val	Glu	Ser	Ser
UBIQUITIN SOYBEAN	Met	Gln	Ile	Phe	Val	Lys	Thr	Leu	Thr	Gyl	Lys	Thr	Ile	Thr	Leu	Glu	Val	Glu	Ser	Ser
Parkin	Thr	Ser	Ile	Phe	Gln	Leu	Lys	Glu	Val	Val	Ala	Lys	Arg	Gln	Gly	Val	Pro	Ala	Asp	Gln
UBIQUITIN HUMAN	Asp	Thr	Ile	Glu	Asn	Val	Lys	Ala	Lys	Ile	Gln	Asp	Lys	Glu	Gly	Ile	Pro	Pro	Asp	Gln
UBIQUITIN YEAST	Asp	Thr	Ile	Asp	Asn	Val	Lys	Ser	Lys	Ile	Gln	Asp	Lys	Glu	Gly	Ile	Pro	Pro	Asp	Gln
UBIQUITIN SOYBEAN	Asp	Thr	Ile	Asp	Asn	Val	Lys	Ala	Lys	Ile	Gln	Asp	Lys	Glu	Gly	Ile	Pro	Pro	Asp	Gln
Parkin	Leu	Arg	Val	Ile	Phe	Ala	Gly	Lys	Glu	Leu	Arg	Asn	Asp	Trp	Thr	Val	Gln	Asn	Cys	Asp
UBIQUITIN HUMAN	Gln	Arg	Leu	Ile	Phe	Ala	Gly	Lys	Gln	Leu	Glu	Asp	Gly	Arg	Thr	Leu	Ser	Asp	Tyr	Asn
UBIQUITIN YEAST	Gln	Arg	Leu	Ile	Phe	Ala	Gly	Lys	Gln	Leu	Glu	Asp	Gly	Arg	Thr	Leu	Ser	Asp	Tyr	Asn
UBIQUITIN SOYBEAN	Gln	Arg	Leu	Ile	Phe	Ala	Gly	Lys	Gln	Leu	Glu	Asp	Gly	Arg	Thr	Leu	Ala	Asp	Tyr	Asn
Parkin	Leu	Asp	Gln	Gln	Ser	Ile	Val	His	Ile	Val	Gln	Arg	Pro	Trp	Arg	Lys				
UBIQUITIN HUMAN	Ile	Gln	Lys	Glu	Ser	Thr	Leu	His	Leu	Val	Leu	Arg	Leu	Arg	Gly	Gly				
UBIQUITIN YEAST	Ile	Gln	Lys	Glu	Ser	Thr	Leu	His	Leu	Val	Leu	Arg	Leu	Arg	Gly	Gly				
UBIQUITIN SOYBEAN	Ile	Gln	Lys	Glu	Ser	Thr	Leu	His	Leu	Val	Leu	Arg	Leu	Arg	Gly	Gly				

FIG. 6

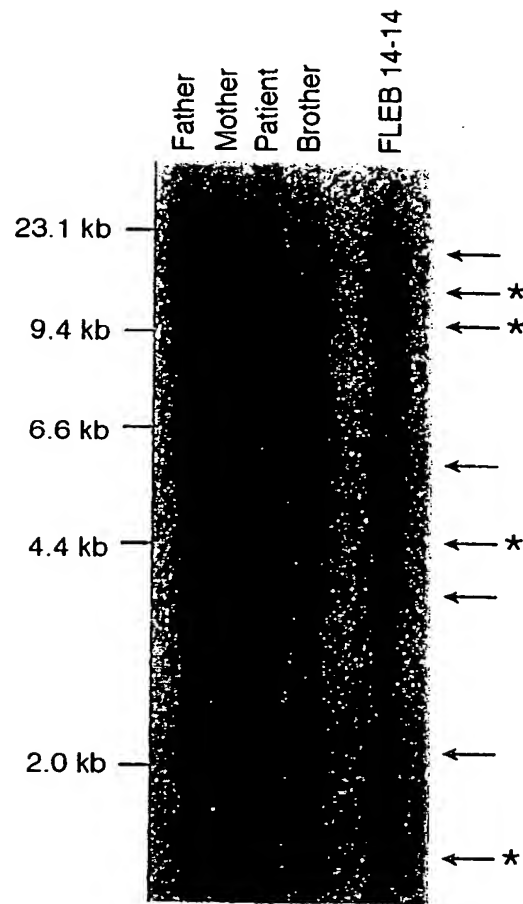


FIG. 7

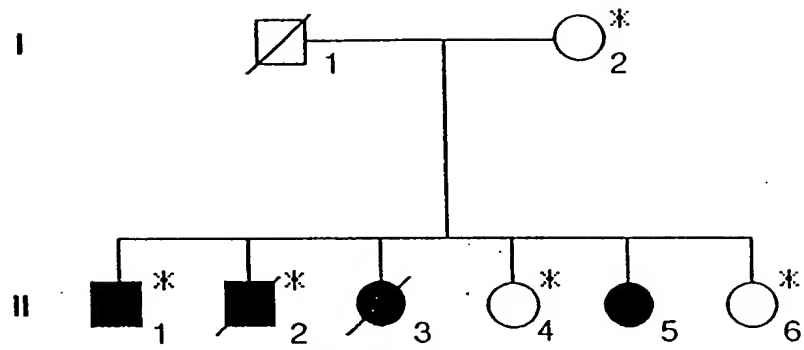


FIG. 8

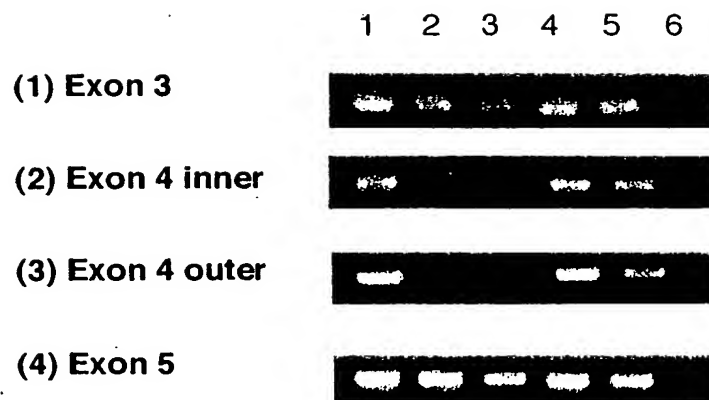


FIG. 9

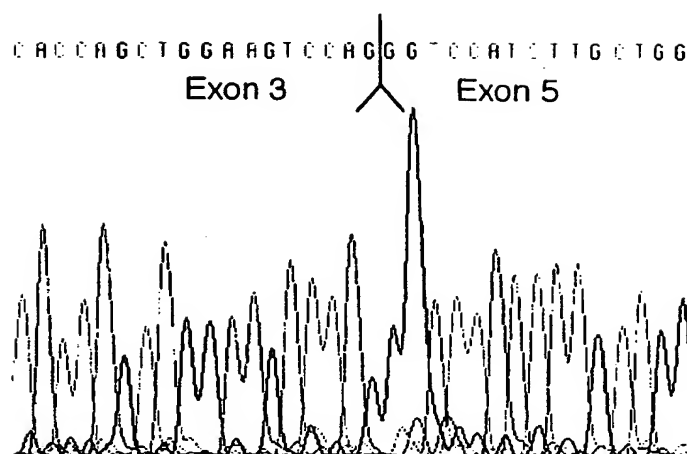


FIG. 10A

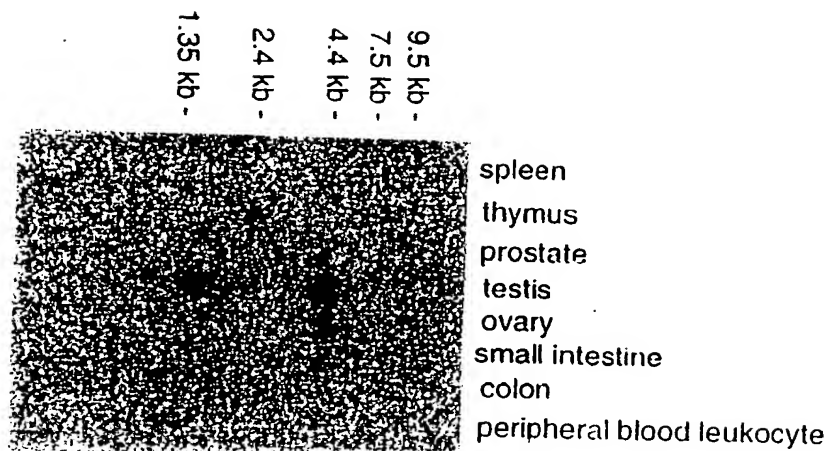


FIG. 10B

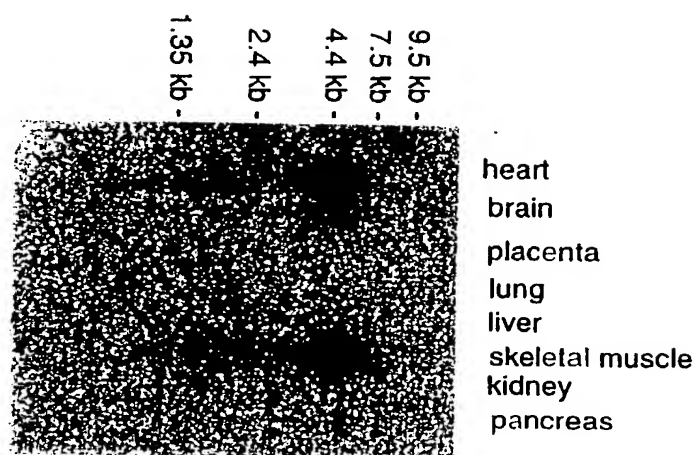


FIG. 10C

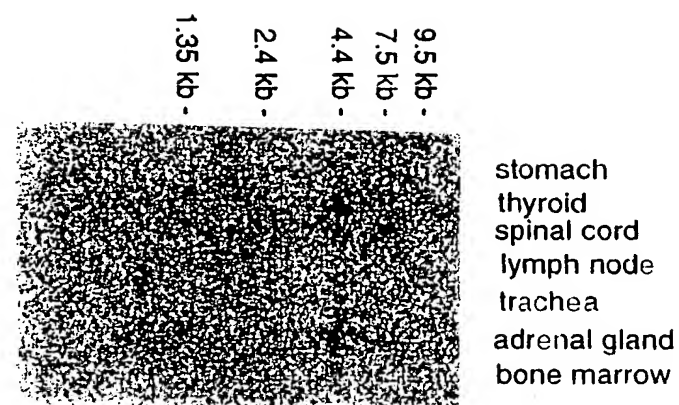


FIG. 11A

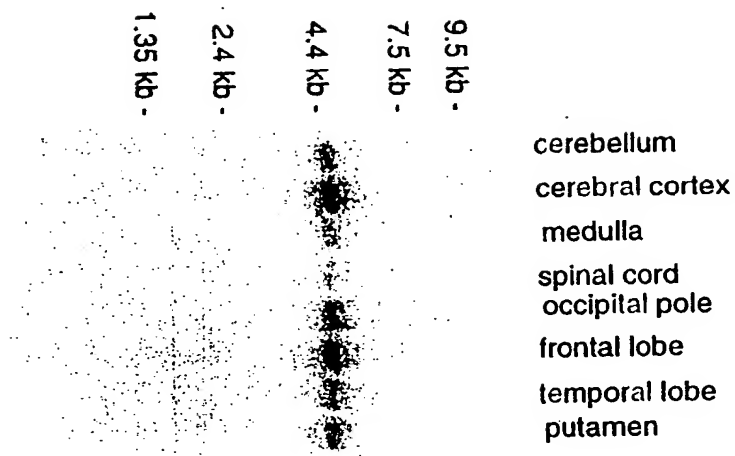


FIG. 11B

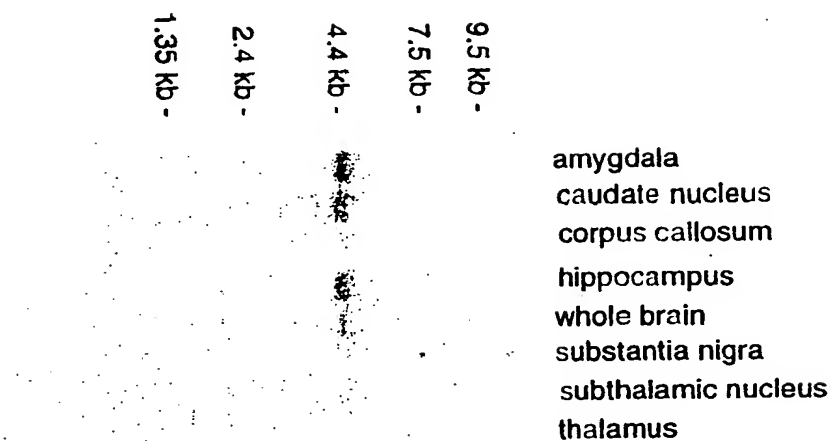


FIG. 12

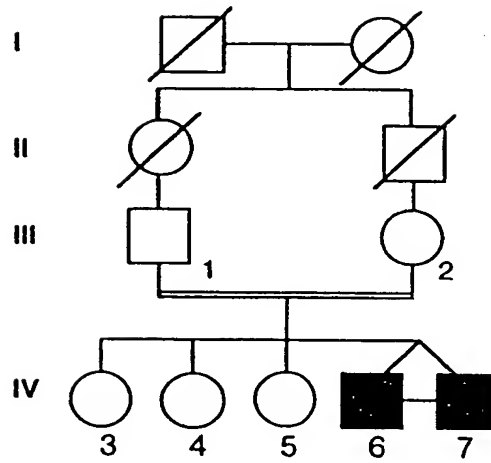


FIG. 13

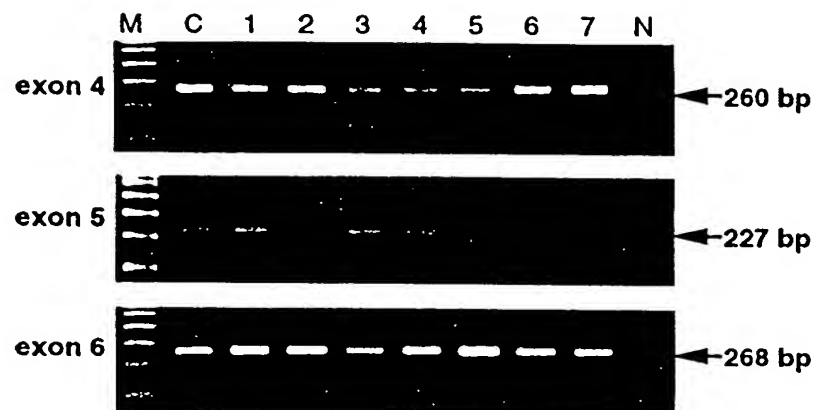


FIG. 14

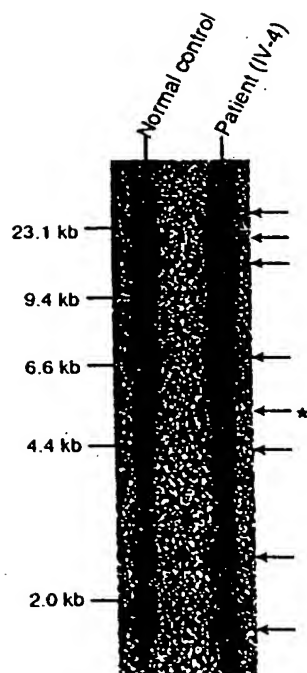


FIG. 15

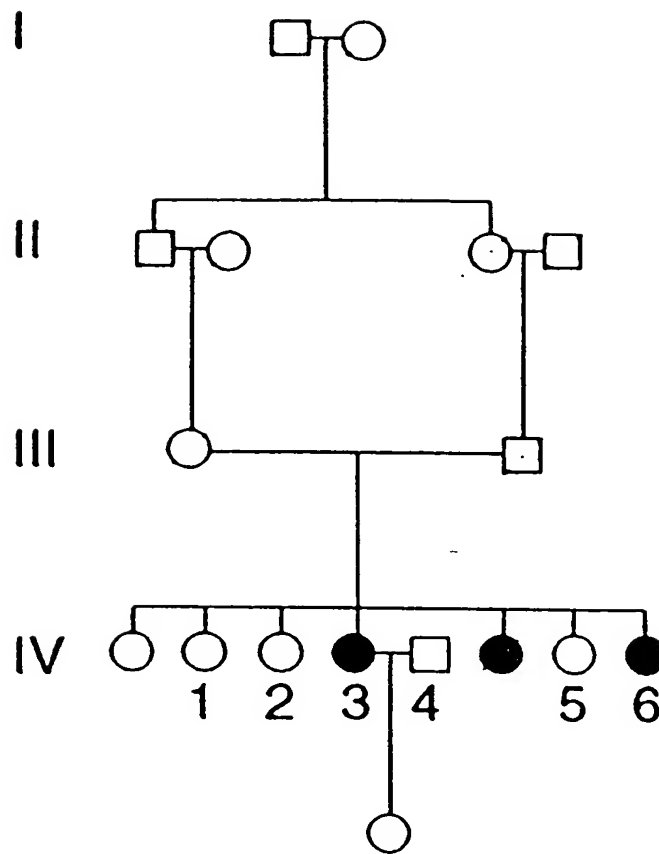


FIG. 16



FIG. 17

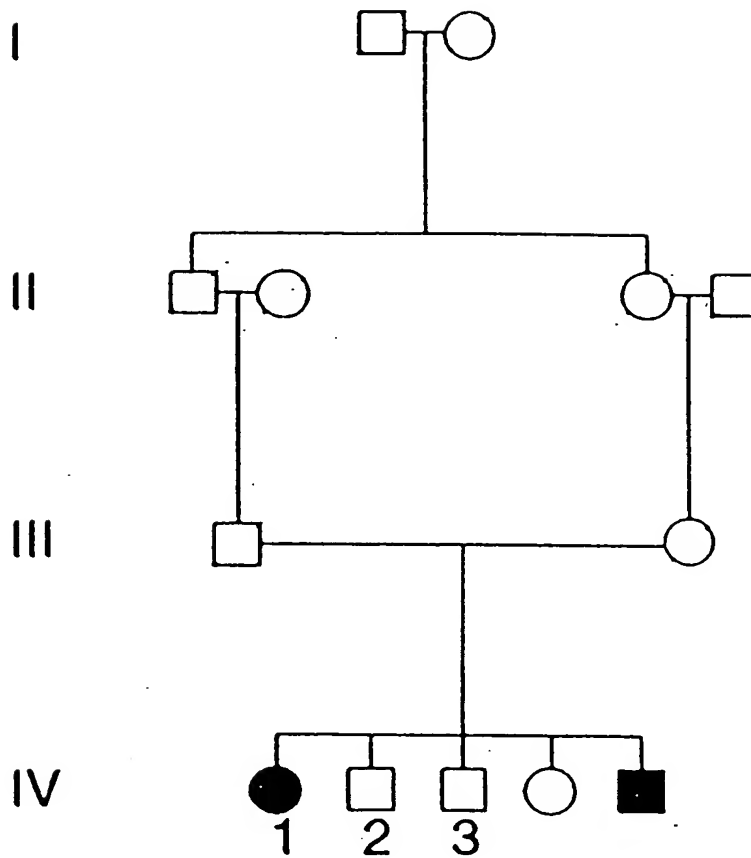


FIG. 18

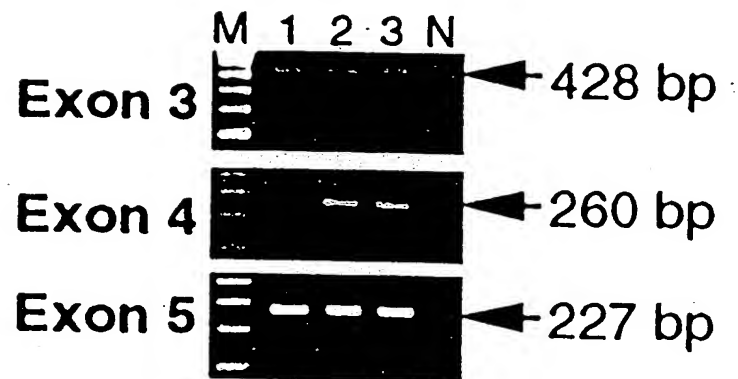


FIG. 19

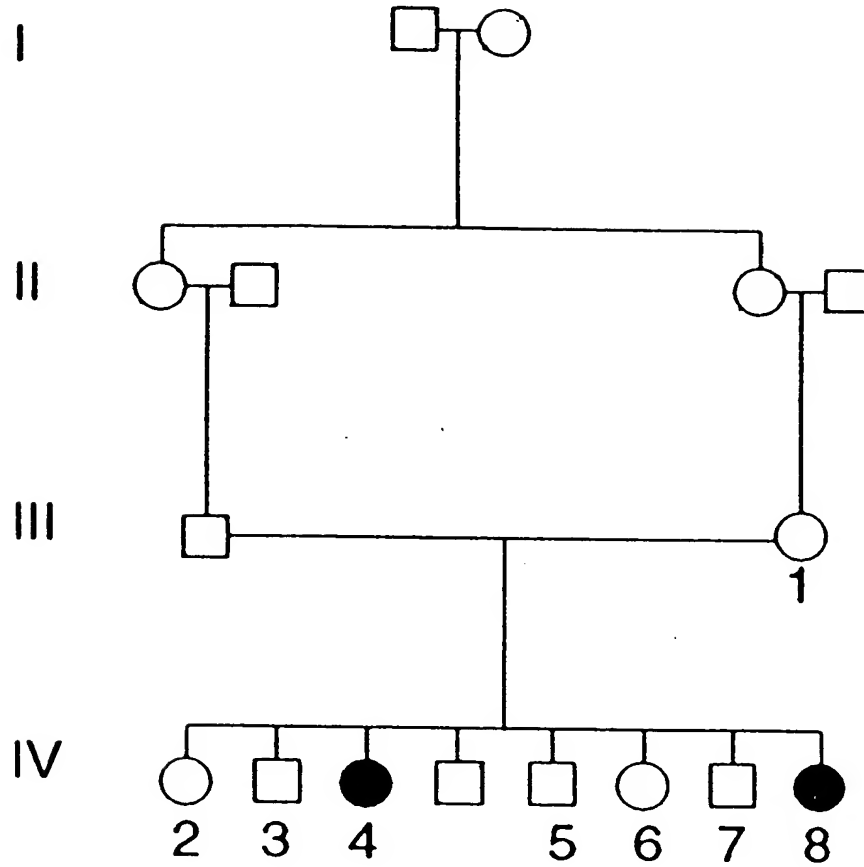


FIG. 20

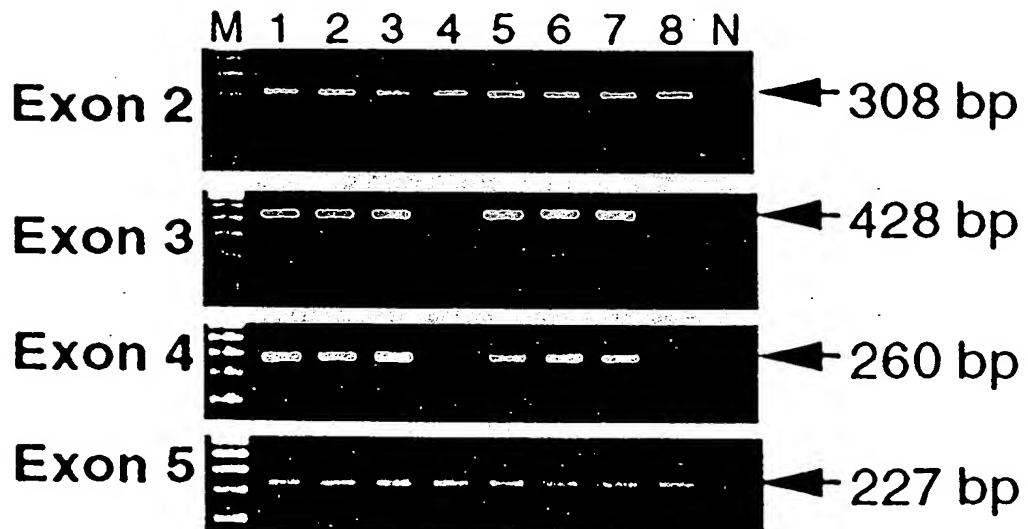


FIG. 21

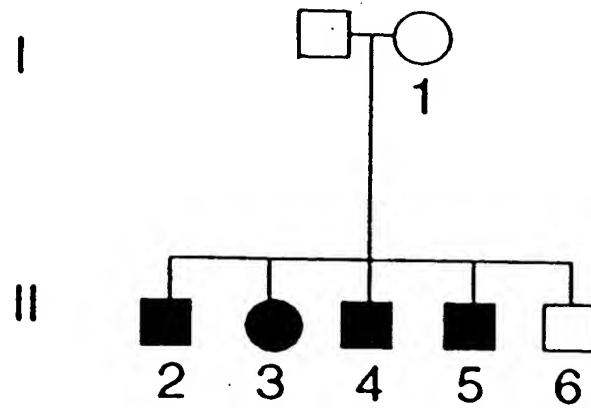


FIG. 22

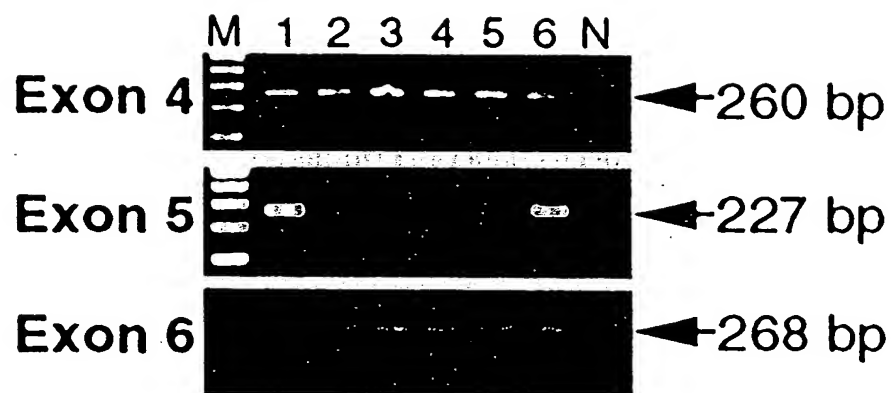


FIG. 23

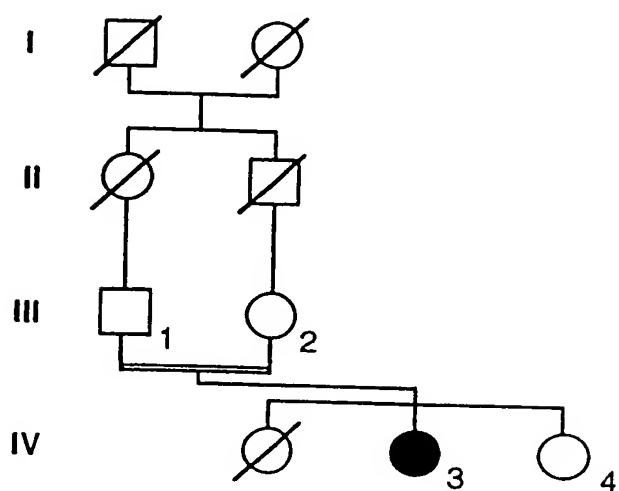


FIG. 24

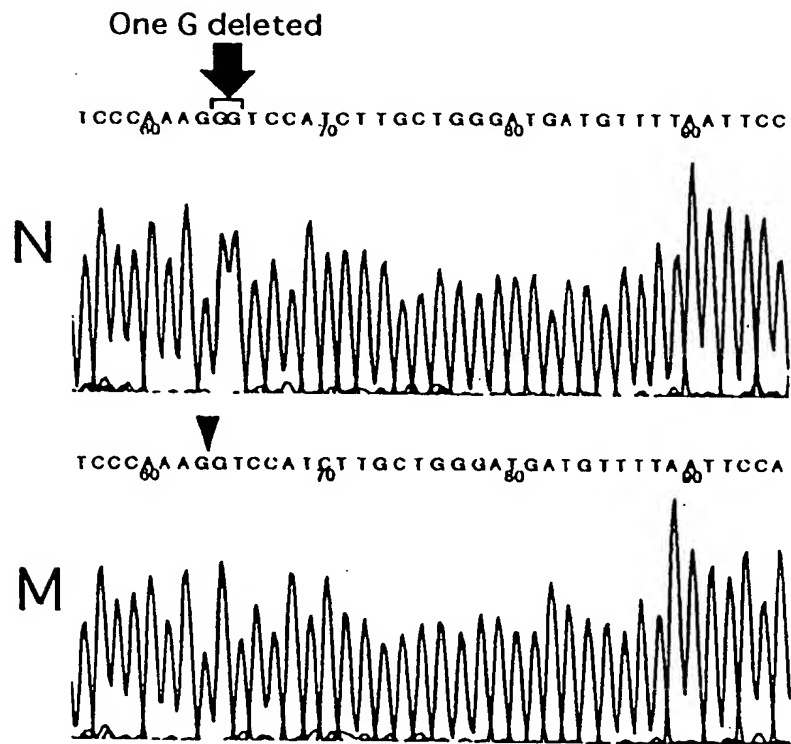



FIG. 25

intron 4  Exon 5

		640			650			660		
Normal	tcccaaag	GGT	CCA	TCT	TGC	TGG	GAT	GAT	GTT	TTA ATT
		Gly	Pro	Ser	Cys	Trp	Asp	Asp	Val	Leu Ile
Mutant	tcccaaag	GTC	CAT	CTT	GCT	GGG	ATG	ATG	TTT	TAA TT
		Val	His	Leu	Ala	Gly	Met	Met	Phe	***

FIG. 26

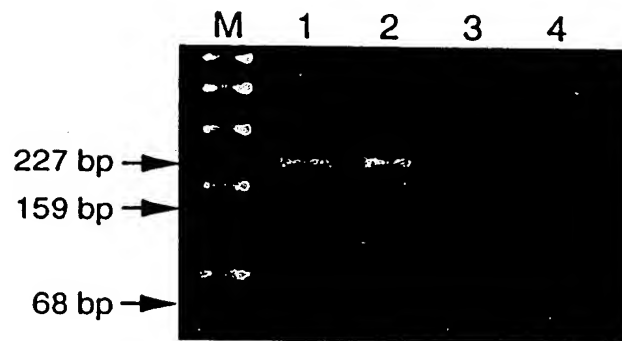


FIG. 27

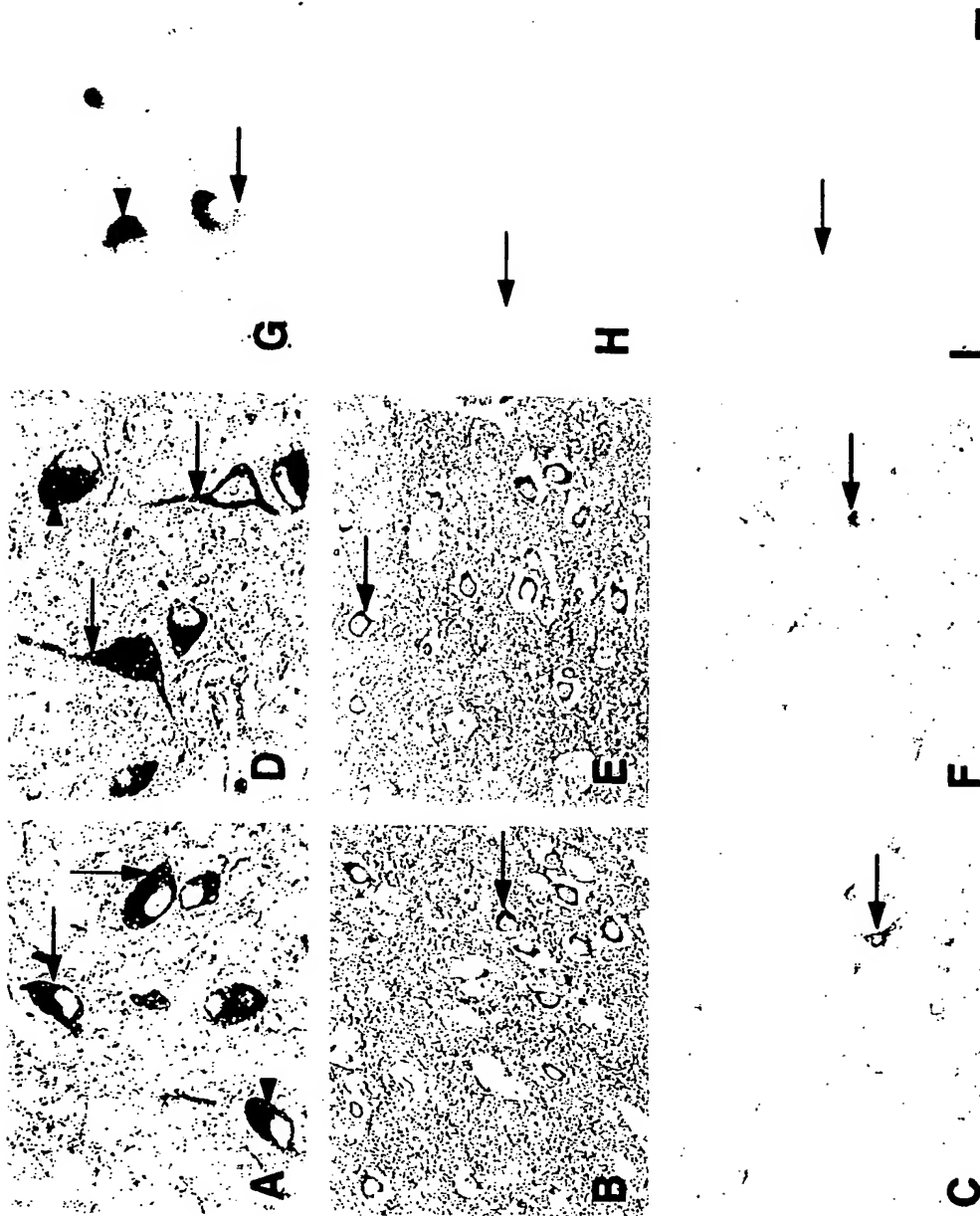


FIG. 28

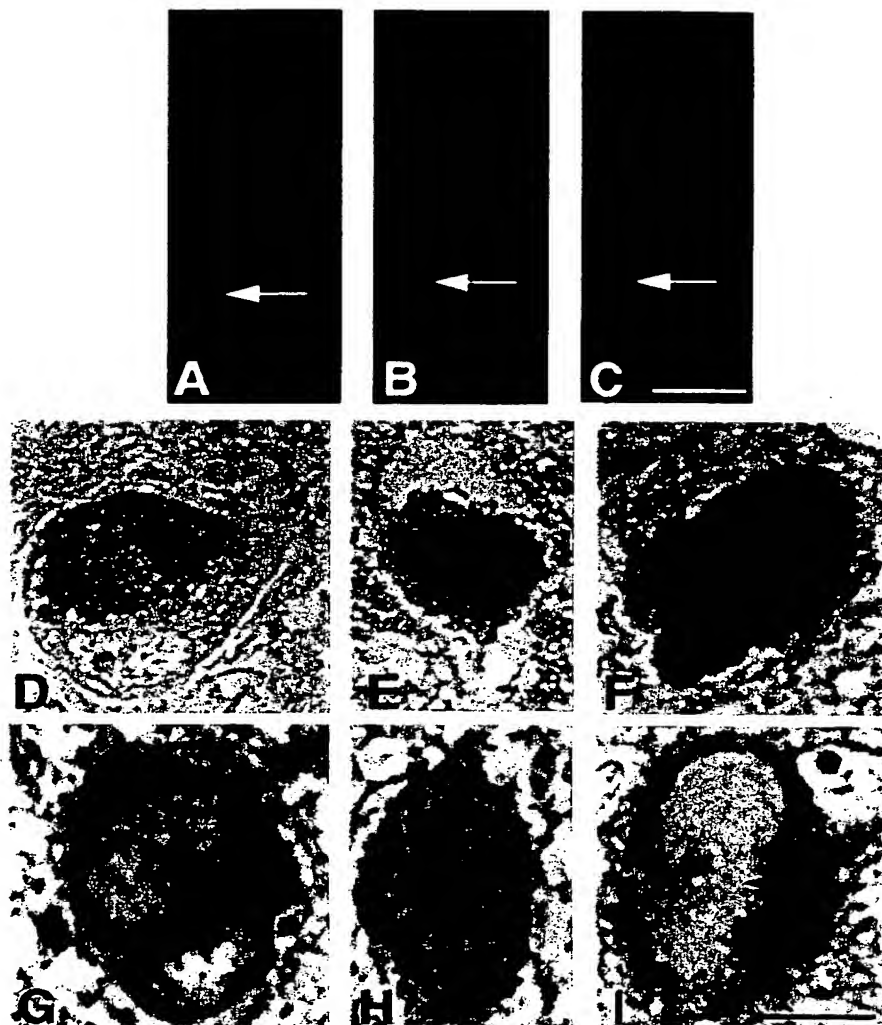


FIG. 29

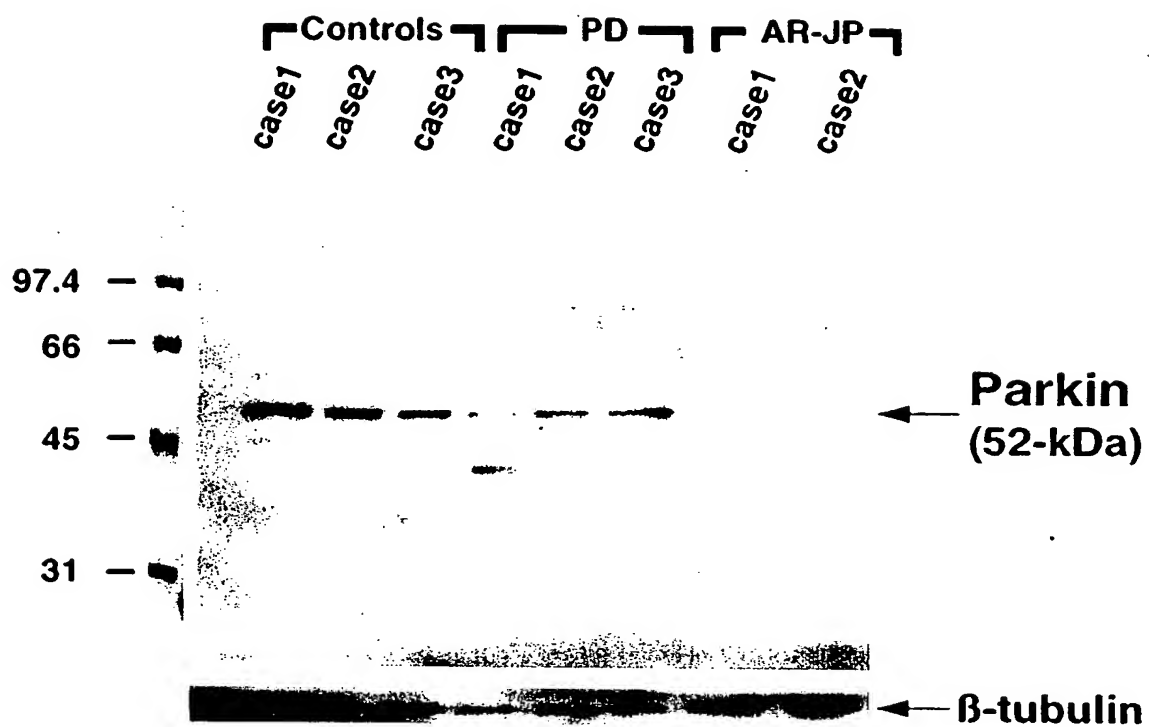


FIG. 30

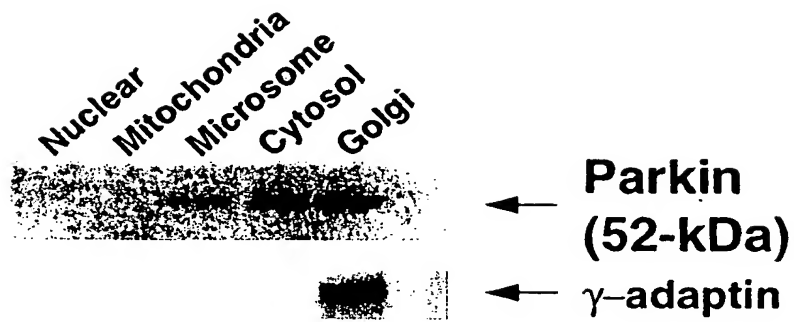


FIG. 31

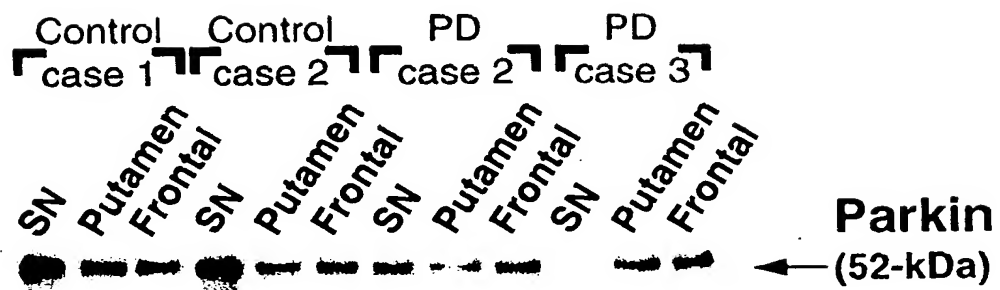
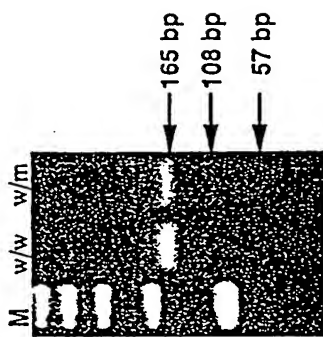
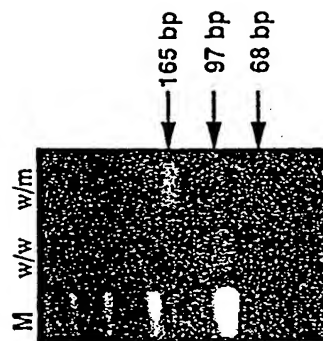


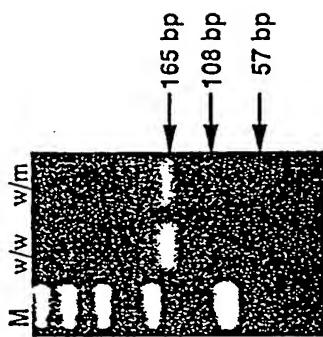
FIG. 32



A) *A/wNI*



B) *NciI*



C) *Bsp1286I*

FIG. 33

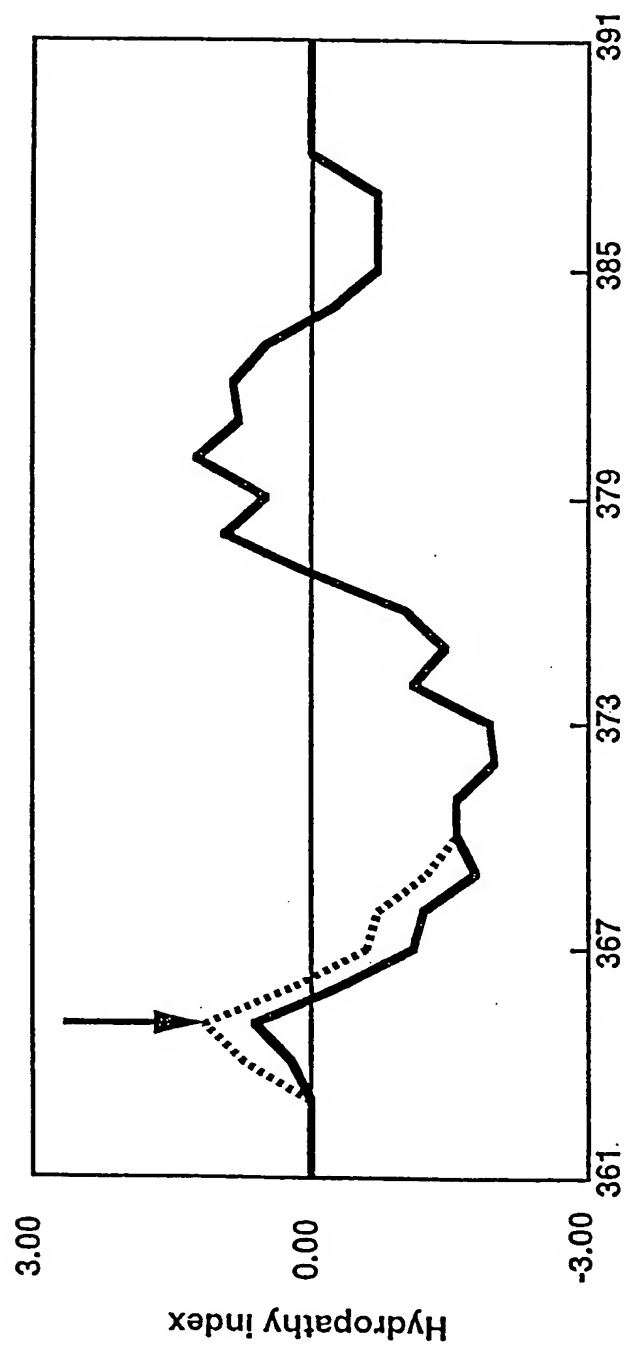


FIG. 34

